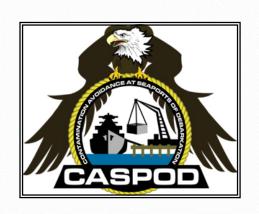


Making the World Safer

Contamination Avoidance at Seaports of Debarkation (CASPOD) Advanced Concept Technology Demonstration (ACTD)

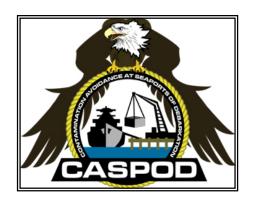
CASPOD Overview Briefing



Mr. Paul Schiele DTRA/CB CASPOD Technical Manager

Purpose

Provide inform ation on program status and technical approach to the CASPOD ACTD





"The gravest danger to freedom lies at the crossroads of radicalism and technology.

When the spread of chemical and biological and nuclear weapons,

along with ballistic missile technology—when that occurs, even weak states

and small groups could attain a catastrophic power to strike great nations.

Our enemies have declared this very intention, and have been caught seeking

these terrible weapons. They want the capability to blackmail us, or to harm us,

or to harm our friends—and we will oppose them with all our power."

President Bush West Point, New York June 1, 2002



SPOD CB Defense Challenge

Minimize degradation to OPTEMPO & Force Flow resulting from CB attack during vulnerable initial force deployment period of contingency operations at SPODs

Increasing	CBD	Vulnerability
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CONUS	OCONUS	OCONUS
CONUS	Mature Theater	Immature Theater

Typical Fixed Sites

- Mature theater
- US controlled installation
- US Military Presence
- CBD Equipment in-place
- Robust C² Infrastructure
- Established CONOPS, TTPs
- Established Command Relationships

Majority of SPODs

- Immature Theater
- Foreign owned / controlled facility
- No US Military Presence
- No CBD Equipment in-place
- No C² Infrastructure
- Ill-defined CONOPs, TTPs
- Ill-defined Command Relationships

Counter "Access Denial" Strategy, provide
"Access Assurance" for Power
Projection Operations



What is CASPOD?

Chem /B io Defense (CBD) technologies and procedures for pre/during/post attack actions necessary to protect against and im m ediately react to the consequences of a Chemical, Biological, Toxic Industrial Chemical, or Toxic Industrial Material attack/release at Seaports of Debarkation.

It will include:

- Protection for personnel and critical equipm entprior to attack (including HostNation assets)
- CB attack detection/identification/warning
- Contam ination mapping
- Transportable CB Response Package (TCBRP)
- Decontam ination of critical personnel and unique equipm ent/facilitics
 necessary for port operations
- Deployable in etw orked system of sensors for improved situational awareness
- LimitCB effects on OPTEM PO and degradation of Force Flow and provide a CB defense warfighting capability to the Combatant Commander







CASPOD Objectives

- <u>Demonstrate</u> operational concepts & tactics, techniques & procedures (TTPs) to initiate and sustain operations at SPODs
- <u>Identify</u> and refine force structure necessary to implement procedural and equipment requirements, which provide full-spectrum CB defense warfighting capability
- <u>Develop</u> & <u>Demonstrate</u> resident, pre-positioned, or rapidly transportable CBD materiel packages and force structure needed for employment at SPODs
- <u>Identify</u> strategic operational improvements / shortfalls for CASPOD contingencies
- <u>Provide</u> a forum, process and structure for addressing and modifying U.S., coalition, and host nation policy issues

Mitigate effects of CB attack, Maintain power Projection, Sustain OPTEMPO & force flow at SPODs



CASPOD Key Players

- Combatant Command Sponsor
 - U.S. Central Command
- Combatant Command Co-Sponsor
 - U.S. Transportation Command
- Supporting Combatant Command
 - Pacific Command
- Executing Agent
 - DTRA CB
- Operational Manger
 - U.S. Central Command (LTC Simon, CCJ3-OC)
- Technical Manager
 - DTRA CB (Mr. Schiele, DTRA/CBD)
- Lead Service
 - U. S. Army
- Technical Test Evaluator
 - West Desert Test Center, Dugway Proving Grounds
- Operational Test Evaluator
 - AFOTEC/ATEC/CNA





MTMC Charleston, SC

Blount Island, FL

Potential CONUS Demonstration Sites -

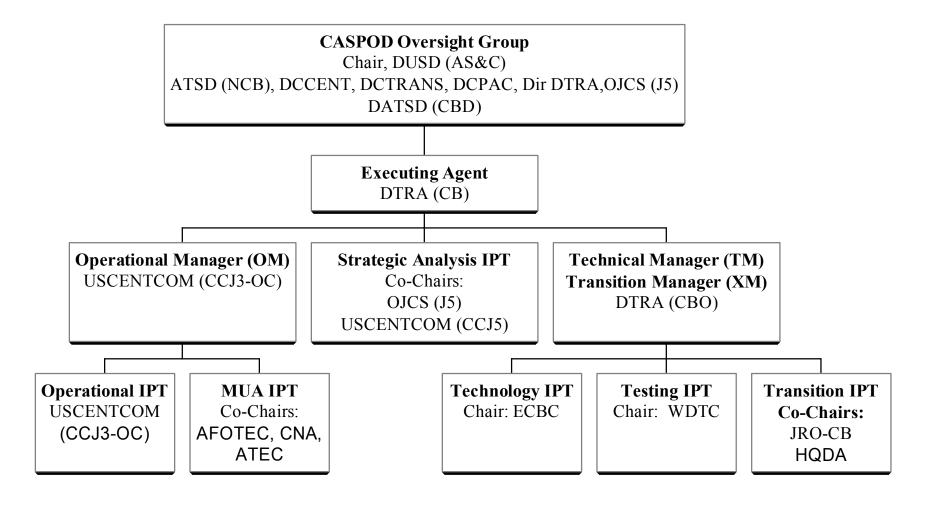


Mina Salman, Bahrain
- Potential OCONUS
Demonstration Site -



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CASPOD ACTD Organizational Structure





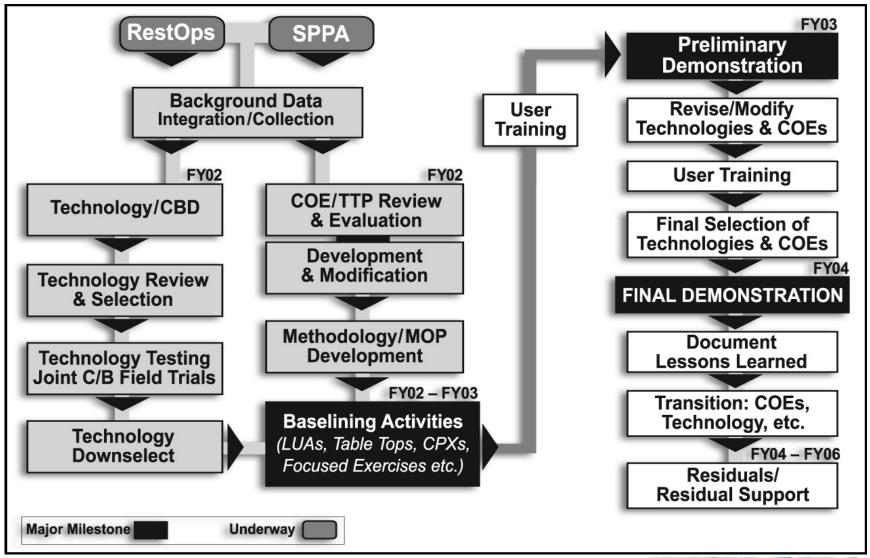
CASPOD ACTD Funding Profile

\$Millions	FY02	FY03	FY04	FY05	FY06	Total
DTRA (CBDP)	5.5	9.5	13.4	3.0	3.0	34.4
DUSD (AS&C)	1.8	1.8	3.0	1.0	1.0	8.6
TOTAL	7.3	11.3	16.4	4.0	4.0	43.0

Fully Funded
3 year Execution Phase
2 year Residual Phase



CASPOD ACTD Process



CASPOD ACTD Solutions

- CB defense / Joint Doctrine, TTP changes
- Force structure and operational procedure changes
- Recommend improved joint / combined SPOD C2 structures
- Develop CBD scenario and training packages for Combatant Commander and Services SPOD exercises
- Recommend TPFDD and War Plan Revisions
- Recommend HN and SPOD Support Policy changes
- Identify operational procedures for employment of prepackaged CB SPOD defense capability
- Identify the CB defense warfighting capability requirement for the Combatant Commander

Potential CASPOD Solutions (Continued)

Technology

- Identify mature CBD technologies
 - Detection, Decon, Protection, Medical
- Identify Information Technology Solutions
 - Sensor Integration, C²
 Situational Awareness tools
 - Combatant Commander CB
 Defense Planning and
 throughput analysis
 M&S tools
- Develop training packages
- Construct prepackaged CB defense SPOD capability (Resident/Prepositioned/ Fly Away)











Technology Focus Areas

DETECTION



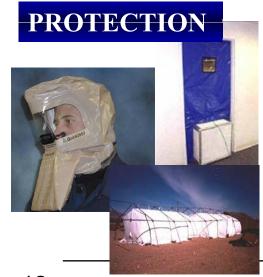
Networked Sensors with C2 / Situational Awareness Display

Resident, Pre-positioned, or rapidly Transportable CB Defense package

SITUATIONAL AWARENESS



Deployable C2 System Leverage CRASOC2











Making the World Safer

Potential Residuals

- Command & Control Situational Awareness for CBD
- Port Alerting Network
- CBD tactical sensors
- Unique barrier materials
- Personal protective equipment
- Medical equipment
- Decontaminants and hardware
- Operational Procedures to include Host Nation Support



CASPOD Planning Drivers

CASPOD Execution

- Mini-Technology Search and Field Trial
- FY03 Preliminary Demo (CONUS port simulates SPOD)
- FY04 Final Demo (OCONUS SPOD)

Employ Mature technologies

- No R&D
- Minimum integration efforts

Leverage RestOps ACTD

- Literature Search
- Technology Search and Testing
- Airbase / APOD and Demonstration Lessons-learned

Leverage SPPA Project Efforts

- 4 SPOD assessments and detailed Port CBD Plans
- Generic Port CBD Templates (Ammo, POL, General)
- "Flyaway Package" Equipment List (Transportable Chem-Bio Response Package (TCBRP))

CASPOD Accomplishments to Date

•	Implementation	Directive signed -	20 Feb 02
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•	Management Plan	Coordination draft -	Jan 02
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Final for Signature - 1ST Qtr FY03 pending: JRO, PEO, HQDA

• SPPA Table Top Exercise Apr 02

Phase I Technology Downselect
 Mar 02

• Phase II Downselect Jul 02

Financial Execution Review



4th Qtr FY02

CASPOD Near-term Milestones

•	Management Plan	Nov 02
•	In-Progress/Financial Execution Review	Oct 02 (Completed)
•	Integrated Assessment Plan (IAP)	1st Qtr FY03
•	Complete Technical Testing	
	 Medical, Mortuary Affairs, Collective Protection 	Oct 02- Jan 03
	 Protection Equipment 	Oct 02- Jan 03
	 Detection Equipment 	Oct 02- Jan 03
	 Decontamination Equipment 	Oct 02- Jan 03
•	Complete Initial Transition Plan	1st Qtr FY 03
•	Preliminary Demonstration Planning	1st Qtr FY03 (ongoing)
•	Limited Utility Assessment (LUA) Planning	1st & 2d Qtr FY03
	 Scenario Development 	

• LUA Execution

- Exercise COE/CONOPS/TTP

COE/CONOPS/TTP Development

Training/Manual Development

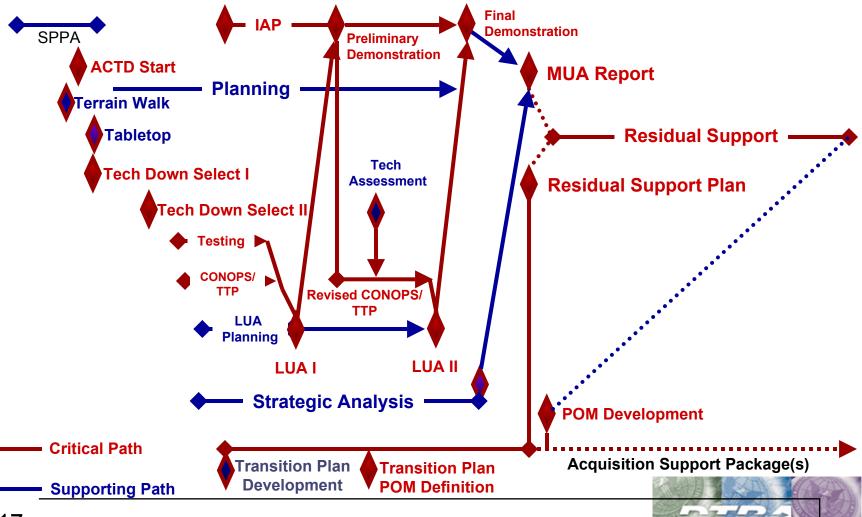
Support Preliminary Demonstration Planning



3d Qtr FY03

CASPOD Timeline

FY02					FY	03		FY04 F					FY	FY05			FY	06	
1st	2d	3d	4 th	1st	2d	3d	4 th	1st	2d	3d	4 th	1st	2d	3d	4 th	1st	2d	3d	4 th
Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr	Qtr



Questions?



